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4069-A VALVE

PENTODE.

SPECIFICATION.

Cathode.

Thoriated tungsten filament. Constant voltage type.

Base.

American Giant 5-pin.

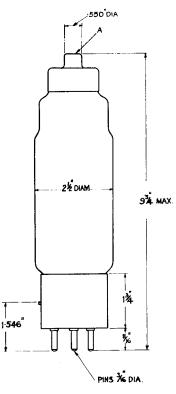
Dimensions.

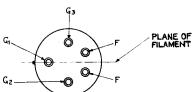
Max. overall length $9\frac{3}{4}''$ (24·7 cms.) Bulb diameter $2\frac{1}{2}''$ (6·4 cms.) Anode cap diameter 0.55'' (1·4 cms.) Net weight 0.75 lbs. (340 gms.)

Constants.

Filament voltage 10 volts Nominal filament current 5.4 amps. *Mutual conductance 4.5 mA. per volt Grid-anode capacity 0.02 $\mu\mu$ F. Input capacity 15.5 $\mu\mu$ F. Output capacity 5.5 $\mu\mu$ F.

* at Vp = 2,000 volts, $Vg_1 = 400$ volts, $Vg_1 = -20$ volts.





LIMITING CONDITIONS FOR SAFE OPERATION.

Maximum direct anode voltage2,000 voltsMaximum direct screen voltage400 voltsMaximum direct suppressor voltage45 voltsMaximum anode dissipation100 wattsMaximum screen dissipation35 wattsMaximum direct control grid current25 mA.Maximum RF control grid current8 amps.

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TYPICAL OPERATING CONDITIONS.

Class B Telephony		
Direct anode voltage Direct screen voltage Direct control grid voltage Direct suppressor voltage Peak RF input Anode current	2,000 volts 400 volts —38 volts 0 volts 90 volts 75 mA.	
Screen current Screen resistor Driving power Peak output Carrier output	30 mA. 55,000 ohms 0-9 watts 200 watts 50 watts	

RADIO FREQUENCY OPERATION.

Class C Telephony — Control grid modulated		
Direct anode voltage	2,000 volts	
Direct screen voltage	400 volts	
Direct control grid voltage	—140 volts	
Direct suppressor voltage	0 volts	
Anode current	85 mA.	
Screen current	20 mA.	
Screen resistor	80,000 ohms	
Control grid current	2·8 mA.	
Peak RF input voltage (Vg I)	170 volts	
Peak AF input voltage (Vg)	60 volts	
AF power	I-0 watts	
Peak RF input power	3.0 watts	
Peak output	280 watts	
Carrier output	70 watts	

Class C Telegraphy		
Direct anode voltage Direct screen voltage Direct control grid voltage Direct suppressor voltage Anode current Screen current Screen resistor Control grid current Peak RF input volts RF input power Dutput	2,000 volts 400 volts	

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· · · · · · · · · · · · · · · · · · ·	Suppressor	Screen
Direct anode voltage	2,000	2,000 volts
Direct screen voltage	400	400 volts
Direct control grid voltage	—100	—100 volts
Direct suppressor voltage	50	45 volts
Peak AF suppressor voltage	90	90 volts
Peak AF screen voltage	0	200 volts
Peak RF input	180	180 volts
Anode current	80	85 mA.
Screen current	85	85 mA.
creen resistor	20,000	20,000 ohms
Control grid current	11	II mA.
RF input power	2.7	2.0 watts
AF input	l · 2	6.2 watts
Peak output	240	280 watts
Carrier output	60	70 watts

